PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PP19482.003	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)					
International application No.	International filing date (day/mo	nth/year) Priorit	y date (day/month/year)				
PCT/US03/18666	13 June 2003 (13.06.2003)	13 Jun	e 2002 (13.06.2002)				
International Patent Classification (IPC)	International Patent Classification (IPC) or national classification and IPC						
IPC(7): C07H 21/04; C12N 15/74 and U	S Cl.: 536/23.5; 435/320.1						
Applicant							
CHIRON CORPORATION							
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. This REPORT consists of a total of sheets, including this cover sheet. 							
2. This REPORT consists of	a total of sheets, including	this cover sneet.					
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total ofsheets.							
This report contains indicate	ations relating to the following	items:					
I Basis of the rep	oort						
II Priority							
III Non-establishm	nent of report with regard to nov	velty, inventive step an	d industrial applicability				
IV Lack of unity o	IV Lack of unity of invention						
	V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability, citations and explanations supporting such statement						
VI Certain docume	VI Certain documents cited						
VII Certain defects	VII Certain defects in the international application						
VIII Certain observa	VIII Certain observations on the international application						
Date of submission of the demand	That	e of completion of this	report				
Date of submission of the demand		Date of completion of this report					
08 December 2003 (08.12.2003)		May 2005 (14.05.2005)					
Name and mailing address of the IPEA/US Mail Stop PCT, Attn: IPEA/ US		horized officer	ANNE M. WEHBE' PH				
Commissioner for Patents P.O. Box 1450	Ric	hard Schnizer, Ph. D	PHIMARYEXAMINE				
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	Tele	phone No. 571-272-050					
Form PCT/IPEA/409 (cover sheet)(July 1	998)						

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.	_
PCT/US03/18666	

I.	Basis of the report					
1.	With regard to the elements of the international application:*					
	the international application as originally filed.					
	the description:					
	pages 1-29 as originally filed					
	pages NONE, filed with the demand pages NONE, filed with the letter of					
	the claims: pages 30 and 31, as originally filed					
	pages NONE, as amended (together with any statement) under Article 19					
	pages NONE, filed with the demand					
	pages NONE, filed with the letter of	 ·				
	the drawings:					
	pages 1-25 , as originally filed					
	pages NONE, filed with the demand pages NONE, filed with the letter of					
	the sequence listing part of the description:					
	pages NONE, as originally filed					
	pages NONE, filed with the demand					
_	pages NONE , filed with the letter of					
2.	With regard to the language, all the elements marked above were available or furnished t language in which the international application was filed, unless otherwise indicated under	o this Authority in the				
	These elements were available or furnished to this Authority in the following language	which is:				
	the language of a translation furnished for the purposes of international search (under	=				
	the language of publication of the international application (under Rule 48.3(b)).	2 Tano25.1(0)).				
	the language of the translation furnished for the purposes of international preliminar	y examination(under Rules				
•	55.2 and/or 55.3).					
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international international preliminary examination was carried out on the basis of the sequence listing	l application, the				
	contained in the international application in printed form.					
	filed together with the international application in computer readable form.					
	furnished subsequently to this Authority in written form.					
	furnished subsequently to this Authority in computer readable form.					
	The statement that the subsequently furnished written sequence listing does not go be international application as filed has been furnished.	beyond the disclosure in the				
	The statement that the information recorded in computer readable form is identical that been furnished.	to the written sequence listing				
4.	The amendments have resulted in the cancellation of					
	the description, pages NONE					
	the claims, Nos. NONE					
	the drawings, sheets/fig NONE					
5.	This report has been established as if (some of) the amendments had not been made, since the	ey have been considered to go				
*	beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).** Replacement sheets which have been furnished to the receiving Office in represent to an invitation of	adam Andrila IV ann an an an an				
thi	* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17). ** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.					

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US03/18666

Ш. Noi	n-establishment of opinion with regard to novelty, inventive step and industrial applicability				
 The question whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been and will not be examined in respect of: 					
	the entire international application, claims Nos. <u>5-29</u>				
	Claims 1405. <u>5-25</u>				
becaus	se:				
	the said international application, or the said claim Nos relate to the following subject matter which does not require international preliminary examination (specify):				
	the description, claims or drawings (indicate particular elements below) or said claims Nos are so unclear that no meaningful opinion could be formed (specify):				
	the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed.				
\boxtimes	no international search report has been established for said claims Nos. 5-29				
2. A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:					
	the written form has not been furnished or does not comply with the standard.				
	the computer readable form has not been furnished or does not comply with the standard.				

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

Form PCT/IPEA/409 (Box V) (July 1998)

International application No. PCT/US03/18666

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1. STATEMENT					
Novelty (N)	Claims 4 Claims 1-3	YES NO			
Inventive Step (IS)	Claims NONE Claims 1-3				
Industrial Applicability (IA)	Claims NONE	YES			
2. CITATIONS AND EXPLANATIONS Claims 1-3 lack novelty under PCT Article 33(2) as Boese taught a nucleic acid vector comprising a pror subgroup of the HERV-K family of endogenous retre doesnstream of and operably linked to the polypeptic 1-4 Claim meet the criteria set out in PCT Article 33(6) polypeptide from PCAV. NEW CITATIONS	moter, a sequence encoding a polypeptide (cORF) froviruses, a selectable marker, a replication origin, ar de open reading frame. See page 4334, paragraph by (42)	nd a transcription terminator ridging columns 1 and 2.			